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    /**** Program to Multiply Two Matrices ****/

import java.lang.*;
import java.io.*;

class mulmatrix
{
    static int a[][] , b[][] , c[][] , m , n , x , y;
    static void mul()
    {
        DataInputStream dts=new DataInputStream(System.in);

        try
        {
            System.out.println("Enter size of Array A:");
            m = Integer.parseInt(dts.readLine());
            n = Integer.parseInt(dts.readLine());
            a = new int[m][n];
            System.out.println("Enter elements of array A:");

            System.out.println("enter first matrix order :");

            for(int i=0; i<m; i++)
            {
                for(int j=0; j<n; j++)
                {
                    a[i][j]=Integer.parseInt(dts.readLine());
                }
            }

            System.out.println("Enter size of Array B:");
            x = Integer.parseInt(dts.readLine());
            y = Integer.parseInt(dts.readLine());
            b = new int[x][y];
```

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System.out.println("enter second matrix order :");

for(int i=0; i<x; i++)
{
    for(int j=0; j<y; j++)
    {
        b[i][j] = Integer.parseInt(dts.readLine());
    }
}

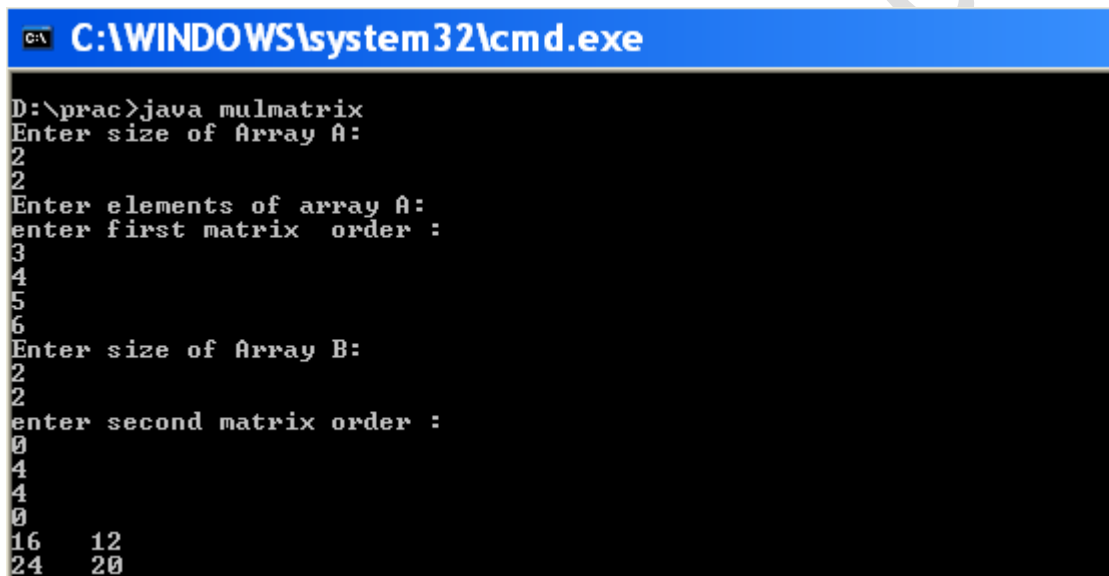
catch(Exception x1)
{
    System.out.println("error");
}

c = new int[m][y];
for(int i=0; i<m; i++)
{
    for(int j=0; j<y; j++)
    {
        for(int k=0;k<y;k++)
        {
            c[i][j]=c[i][j]+a[i][k]*b[k][j];
        }
    }
}

for(int i=0; i<2; i++)
{
    for(int j=0; j<2; j++)
    {
        System.out.print(c[i][j]+" ");
    }
    System.out.println("\t");
}
}
```

```
public static void main(String arg[])
{
    mul();
}
}
```

Output:



```
C:\WINDOWS\system32\cmd.exe
D:\prac>java mulmatrix
Enter size of Array A:
2
2
Enter elements of array A:
enter first matrix order :
3
4
5
6
Enter size of Array B:
2
2
enter second matrix order :
0
4
4
0
16    12
24    20
```